

Appl. No. 09/774,552
Amdt. Dated July 27, 2004
Reply to Office action of May 3, 2004

REMARKS/ARGUMENTS

Claims define allowable subject matter over the applied art

Claims 1-7, 9-23, 25-34, 36-42 and 44-47 were rejected under 35 U.S.C. 102 (e) as being anticipated by Polichar et al (US patent 6,205, 199). Independent claims 1, 15, 34 and 39 have been amended to more clearly recite the claimed subject matter. No new matter has been added. Applicant has carefully reviewed the applied reference and respectfully traverses the rejection of independent claims 1, 15, 34 and 39 (as amended) as being anticipated by Polichar under 35 USC 102(e). Applicant respectfully submits that the Polichar does not teach, suggest or disclose each of the claimed recitations of the amended independent claims 1, 15, 34 and 39.

For anticipation under 35 USC 102, the reference must teach every aspect of the claimed invention, either explicitly or impliedly.

Polichar does not teach, suggest or disclose at least the claim recitations as described in the amended independent claims, specifically, an image detection interface to receive image data in the form of at least one image frame having a predetermined sequence of event instructions constructed off-line, of amended claim 1 and 15; a card connected to the computer communication bus to receive image data in the form of at least one image frame having a predetermined sequence of event instructions constructed off-line, of amended claim 34; and a detector framing node to receive image data in the form of at least one image frame having a predetermined sequence of event instructions constructed off-line of claim 39, are not suggested, disclosed or taught by the applied reference of Polichar. Accordingly, Applicant respectfully submits that the amended independent claims 1, 15, 34 and 39 are not anticipated by Polichar and therefore define allowable subject matter over the applied art.

Polichar merely seems to describe a digital system capable of recording and digitizing the individual x-ray image data (column 3, lines 16-18). It utilizes a CCD camera integrated with an imager such that the camera operates in a discrete pixel mode throughout the readout cycle digitizing each pixel as the signal is sampled and then sends the resulting image to a computer (column 3 lines 35-42, column 4 lines 5-10, and column 6, lines 40-50). Polichar is completely devoid of any teaching, suggestion or disclosure regarding the claim recitation of the "image detection interface for receiving image data in the form of at least one image frame having a predetermined sequence of event instructions constructed off-line" as described in independent claims and as mentioned hereinabove. The section on "Detailed Description of the Invention" of the Applicant's application, on Page 24, lines 5-25 describes the term "sequence of event instructions" adequately. For example, lines 20-25 on Page 24 describe that based on the frame sequence, complete list of event instructions to be performed for a real time execution is constructed before-hand in the offline system on a host computer and then these event

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sequences are transmitted to the detector framing node for real time execution. Nowhere does Polichar teach, disclose or suggest real-time controlling and monitoring of the radiation generation and detection system using an off-line system as described in the Applicant's application. Support for this can be found in the Applicant's specification in the section 'Background of the Invention' lines 6-20 on Page 4, in 'Brief Summary of the Invention' line 19-22 on Page 4 and in the section Detailed Description of the Invention, lines 27-28 on Page 22 through lines 1-2 on Page 23. Further, the structure and the functionality of the detector framing node and its components, none of which are found in Polichar, have been described in detail in the Applicant's application, for example in discussion in reference to Fig. 15, Fig 18, Fig. 27, Fig. 46 and Fig. 48 in the section "Detailed Description of the Invention". For example, in reference to Fig. 15 in the section 'Detailed description of the Invention' on Page 25, lines 12-25 describe in detail how the detector framing node communicates with the radiation generation system and the image detection system in real time. Polichar reference is focused on image detection using a novel imager but is completely devoid of any pre-processing required for image acquisition.

Accordingly, Applicant respectfully submits that the amended independent claims 1, 15, 34 and 39 are allowable over the applied reference.

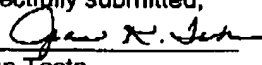
Claims 2-7, 9-14 depend directly or indirectly from claim 1, claims 16-23, 25-33 depend directly or indirectly from claim 15, claims 36-38 depend directly or indirectly from claim 34 and claims 40-42, 44-47 depend directly or indirectly from claim 39. Applicant respectfully submits that amended claims 1, 15, 34 and 39 are patentably distinct from the applied references for the reasons discussed above and that claims 2-7, 9-14, 16-23, 25-33, 36-38, 40-42, and 44-47 are similarly allowable over the applied references.

Summary

In view of the foregoing, Applicant respectfully submits that the application is in condition for allowance. Favorable reconsideration and prompt allowance of the application are respectfully requested.

Should the Examiner believe that anything further is needed to place the application in even better condition for allowance, the Examiner is requested to contact applicant's undersigned representative at the telephone number below.

Respectfully submitted,

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